



U.S. Department of Energy
Energy Efficiency and Renewable Energy

industrial technologies program

Emerging Technologies: Extraordinary New Opportunities

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What are **EMERGING** Technologies?

- OIT has been Partner in Development
- Nearing (or at) Commercialization Phase
- Welcoming additional industrial & manufacturing participation.



Status of Emerging Technologies

- Ready for Commercial Application
- Energy savings is focus; cost and productivity benefits essential features
- Outside the “mainstream” technology development pipeline



Emerging Technology Examples

- Catalytic Hydrogenation Retrofit Reactor (APCI)
- Membrane for Olefin Recovery (MTR)
- Pressure Swing Adsorption for Product Recovery (APCI)
- Cocurrent Distillation Tray (Jaeger)



Examples

- Alloys for Ethylene Production (ORNL)
- Distillation Column Flooding Predictor (2nd Point)
- Gas Imaging for Advanced Leak Detection (Laser Imaging Systems)
- Petroleum Fouling Mitigation (Amoco, Chevron, ANL)



Special Opportunities

- OIT can assist cost-sharing of demonstration, implementation
- Special consideration for demonstration of emerging technology
- Dramatically reduce costs associated with traditional technology development and deployment



Have interest?

- Fact sheets on all emerging technologies available here (Showcase)
- Will **PERSONALLY** assist anyone to learn more about emerging technologies, and find appropriate means of technology implementation
- Lots of opportunities to participate in other active technology programs, too!



Please contact me for additional info!

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